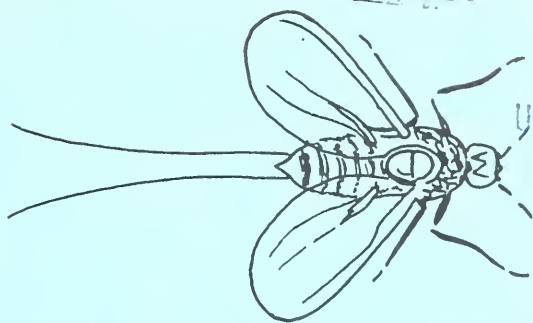


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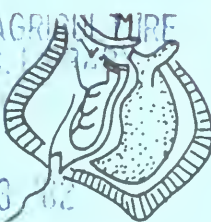
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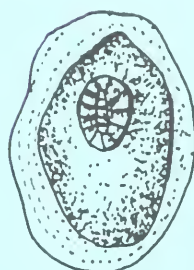
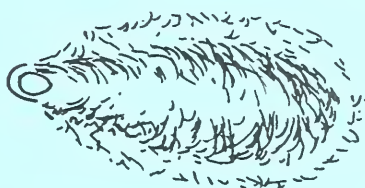
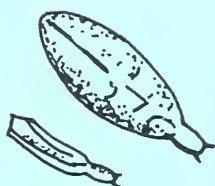


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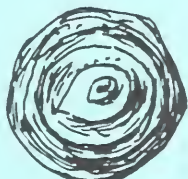
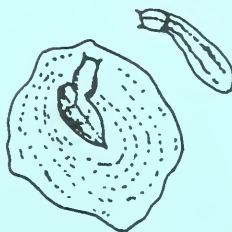
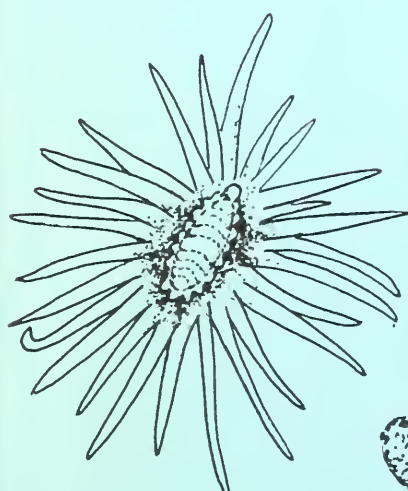
COCCIDOLOGIST'S NEWSLETTER

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6



EDITOR: DOUGLASS R. MILLER
SYSTEMATIC ENTOMOLOGY LAB.
IIBIII, AR, SEA, USDA
BLDG. 003, RM. 1
BELTSVILLE, MD., USA 20705



Research Assistantship

I currently have funding to support a Master's student to work on the electrophoretic patterns of the Eriococcus dubius complex. The assistantship will begin in the Fall of 1982 and will be part of the program of the "Maryland Center of Systematic Entomology" at the University of Maryland, College Park. The student will work with Dr. Charles Mitter and myself on the problem. If you are interested or know someone who may be, please write to me as soon as possible. Douglass R. Miller, Systematic Entomology Laboratory, Building 003, Room 1, USDA - BARC West, Beltsville, Maryland 20705.

NEWS

Again I encourage each of you to participate in this section of the newsletter. Items about what you are doing, expeditions that you have taken, observations that you have made, etc. are most welcome.

First, thanks to G. Kohler and L. Deitz for providing titles of appropriate publications that were not previously mentioned in the newsletter.

1. From J. R. Baker, North Carolina State University, Department of Entomology, Raleigh, NC, June 26, 1981.

"Lewis Deitz mentioned something about a colored slide collection of scale insects. I have slides of 47 scale species as determined by David Stephan in our department and about 10 mealybug species (some determined by J. O. Howell). I am willing to share these in any reasonable way."

2. From Y. Ben-Dov, Division of Entomology, The Volcani Center, P. O. Box 6, Bet-Dagan, Israel, January 3, 1982.

"I intend to spend my sabbatical (July 1982-August 1983) in Blacksburg, Va. [Virginia] in order to finalize the Odonaspidine revision."

3. From P. Gullan, Dept. Zool., Australian National University, Box 4, G.P.O., Canberra A.C.T. 2600 July 13, 1981.

"This is a short note to let you know that I am now working in Canberra and hence have a new address. I have a 3/4 time appointment as a Tutor in the Zoology Department at the Australian National University. This position allows me to spend several hours each week working in the Australian National Insect Collection at C.S.I.R.O. I have deposited my total collection of gall-forming coccids there, and at present I am engaged in a lot of curatorial duties.

"I completed my Ph.D. on the gall-forming genus Apiomorpha Rubsaamen in January, and I am in the process of preparing the taxonomic part for publication. Next year I plan to produce taxonomic revisions of the genera Cylindrococcus Maskell and Cystococcus Fuller."

4. From Keith Kennedy, ChemLawn R&D Center, P. O. Box 395, Milford Center, OH 43045, July 8, 1981.

"I have recently taken a turf insect research position with ChemLawn Corporation in Columbus, Ohio. I intend to maintain an interest in scale insects..."

5. From Jan Koteja, Institute of Applied Zoology, Academy of Agriculture, al. Mickiewicza 24, 30-059 Krakow, Poland July 24, 1981

- a. "Please, note the death of Prof. Dr. Zbigniew Kawecki, the senior Polish Coccidologist (January 29, 1981).

- b. "I have males of the ortheziids Newsteadia floccosa and Orthezia urticae. These will be described and discussed from a taxonomic and phylogenetic (methods of Theron, Giliomee, Afifi, etc.) aspect. As far as I am aware, the male of an ortheziid has yet to be described. Please let me know if you are aware of publications or other information pertaining to male ortheziids.

- c. "Dr. B. Ogaza has supplied me with some pieces of Baltic amber that contain scale insects. I will begin studying this material next year.

- d. "I am planning to undertake a revision of Lecanopsis (Eriopeltini, Coccidae) and related genera in 1982-83. I would be very grateful if other coccidologists could loan material that will be helpful for this study.

- e. "Some preliminary observations and experiments have been undertaken on the circadian activity and rhythm in scale insects. The study examined the frequency and patterns of honeydew excretion and involved the development of a simple honeydew-counting method. It appears likely that other physiological, ecological, or even ontogenetic phenomena can be studied using this method. Unfortunately the studies had to be interrupted because of insufficient laboratory equipment. I am hopeful that others may pursue this interesting area of research. Results of my studies will be published this year.

- f. "I would like to draw attention to an unusual observation: Among slide-mounted specimens of Acanthococcus greeni (Eriococcidae) I found a female that had an extra moult. Within the skin of a female with a vulva and all normal adult characters, there is "another" specimen with adult legs, antennae, and setae, but without pores. Eggs of the scale and eggs of a parasite are also present. A detailed description and discussion of the specimen will be published next year."

[Ed. note - Morrison 1925 gives a description and illustration of the male of Newsteadia americana and mentions 4 other ortheziid males. Beardsley 1968 Ann. Ent. Soc. Amer. 61(66): 1449-1459 discusses the morphology of the males of ortheziids in his paper on Matsucoccus.]

6. From F. Kozar, Budapest, Hungary, May 13, 1981

"We currently are undertaking a project 'Survey of Scale Insects in European Orchards.' In the eastern part of the Palearctic Region this work will be continued with the support of IOBC. The project includes Iran, Iraq, Afganistan, Mongolia, Korea, the eastern part of the USSR, etc. The project at first will deal with quarantine species, but it will not be restricted to these species. I would be grateful if coccidologists and plant quarantine specialists in the United States would examine this project and undertake a similar endeavor. Dr. Kosztarab mentioned that he might be able to provide a place for implementation of such work. I think that it will be very beneficial for all to have detailed maps of the distribution of fruit infesting scale insects in the northern hemisphere. The maps will give data not only about distribution but about density of species and factors of population dynamics. I would be pleased if I could locate someone in the United States who would be willing to cooperate in undertaking such an endeavor."

7. From T. Sankaran, Commonwealth Institute of Biological Control, Post Bag 2484, Bangalore, India 560 024, September 16, 1981

"Since November 1980 we have been studying the diaspine scale insects occurring on wild host plants in southern India, mainly with a view to finding out their natural enemies in their relatively undisturbed habitat (at least pesticide free). This is a project financed by the U.S. Dept. of Agriculture with the approval of the Indian Council of Agricultural Reserch. As the Principal Investigator of the project I am scheduled to visit the U.S.A. in mid-1982 to see the laboratories and meet specialists engaged in research on diaspine scale insects."

8. From R. N. Sarkisov, Institute of Zoology, 7, Psevak, Yerevan, 375004, USSR

"We, collaborators of the Institute, study the biology, ecology, breeding and rearing of the Araratian cochineal (*Porphyrophora hamelii*). We are particularly interested in establishing contacts with other scientists investigating similar problems on scale insects. We also are interested in finding the addresses of the following: F. L. Baranyovitz; A. G. Lloyd; and C-K Yang. We are Angela P. Sevumian-Ecology of coccoids, diapause; Lenora P. Mkrtchian-Reproduction, sexual systems of coccoids; Vladimar A. Zakharian - Breeding of coccoids in artificial condition on host plants; Genmady H. Gasparian - Artificial diets for rearing of coccoids; Robert N. Sarkisov - general interest in biology, ecology, breeding, and reproduction of coccoids."

[Ed. note - If you know the addresses of any of the above-mentioned scientists, please notify Dr. Sarkisov].

Nomenclatural News

In recent years several scientists have begun to work on some of the many problems that exist in the scale insect nomenclatural system. These problems have been discussed at length by such workers as Morrison, Ferris, Borchsenius, etc., but these scientists never took appropriate actions to solve the problems. Recent workers have begun to petition the Commission on Zoological

Nomenclature in regard to some of the problems. One important part of the petition process is to have input from other workers in the field. Please send your comments to Secretary, Commission on Zoological Nomenclature, c/o British Museum (Natural History, Cromwell Road, London SW7 5BD, England. I am aware of two petitions that still must be resolved.

1. Coccus Linnaeus 1758 and Parthenolecanium Sulc, 1908: Proposed designation of type species under the plenary powers. Bull. Zool. Nomen. 38(2): 147-152 (1981)
2. Dactylopius Costa 1855 and Pseudococcus Westwood, 1840: Proposed designation of type-species under the plenary powers with proposed suppression of Diaprosteci Costa, 1828. Bull. Zool. Nomen. 31(3): 146-153 (1974)

Comments: Bull. Zool. Nomen. 38(2): 79-82 and 38(2): 82-83 (1981)

The Fourth International Meeting of Coccidology

"About 45 coccidologists to date have expressed an interest in participating in the proposed symposium. An overwhelming majority preferred Hungary as the host country for 1983.

"The main themes of the Fourth International Meeting of Coccidology are: "Ecology, Systematics and Biogeography of Scale Insects" and will be held during August 1983 in Hungary during the X. Central European Entomo-Faunistic Symposium. The official language of the meeting will be English. Printing of the symposium presentations is assured.

"There will be some principal speakers invited on subjects of general interest. The organizers of the symposium (Michael Kosztarab and Ferenc (Frank) Kozar) are planning some round-table discussions after the regular sessions on selected subjects.

"The first official circular of X. Central European Entomo-Faunistic Symposium is being mailed soon. Please complete their form and return it to the official organizers of X. Central European Entomo-Faunistic Symposium, who have consented to handle registration for the Coccidology Symposium. More details on the presentation of papers will be given in a follow-up circular. For information and/or a copy of the circular for preregistration forms, please write to Dr. F. Kozar at Research Institute of Plant Protection, Herman Otto ut 15, Pf. 102, H-1525 Budapest 114, Hungary." This information is from Michael Kosztarab.

Species Taxa Added to the U.S. National Museum Coccoidea Collection

This article is an update of the lists published in volumes II, IV, V, and VI of the Coccidologist's Newsletter.

	americana Ben-Dov, Kilifia	Cocc	11(h,10p)
	americana Koteja and Howell, Luzulaspis	Cocc	3(h,2p)
3	australiensis Deitz, Colobopyga	Ph	5(1p)
	banksiae Lambdin and Kosztarab, Frenchia	As	16(16p)

beshearae Howell and Tippins, Cupidaspis	Dias	14(h,4p)	
borealis, Koteja and Howell, Luzulaspis	Cocc	1(1p)	
cantentulatus (Froggatt), Celaticoccus	L	2(2pL)	
constricta Ben-Dov, Aclerda	Ac	1(1p)	
delottoi Gill, Pulvinaria	Cocc	6(h,5p)	
elatensis Ben-Dov, Coccus	Cocc	1(1p)	
formicarum Ben-Dov, Andaspis	Dias	2(2p)	
insularis Howell, Quernaspis	Dias	13(h,12p)	
koraiensis Young and Hu, Matsucoccus	M	1	
liriodendri Miller and Howard, Abgrallaspis	Dias	3(h, 2p)	
longilobus Brookes, Poecilococcus	Pseu	2(2p)	
massoniana Young and Hu, Matsucoccus	M	1	
minima Howell and Tippins, Odonaspis	Dias	5(h,4p)	
minima Koteja and Howell, Luzulaspis	Cocc	1(1p)	
namibensis Ben-Dov, Aclerda	Ac	1(1p)	
nudatus Brittin, Cryptococcus	E	2	
numerata Brimblecombe, Andaspis	Dias	1	
oliveri Cox, Rhizoecus	Pseu	2(2p)	
phoenicis Gerson and Davidson, Avidovaspis	Dias	1(1p)	
vittatum Lambdin, Asterolecanium	As	8(8p)	
yunnanensis Ferris, Matsucoccus	M	1	
yunnansonsaus Young and Hu, Matsucoccus	M	1	
		<hr/> 105	
	No. species entries	No. slides	No. boxes
Total in collection	3,681	133,772	28,517

Recent Publications
by D. R. Miller
Systematic Entomology, IIBIII, Agricultural Research Service,
S & E, USDA, Beltsville, MD 20705

I wish to express special appreciation to Mrs. Helen Proctor for her diligent typing and arranging of this long list of publications. The following publications are those received since the newsletter was sent out in June 1981. The list also includes references gathered from a "current awareness" computerized literature search provided by the U.S. Department of Agriculture. If you are aware of papers published in 1980-1981 that are not included in this issue or the previous one, please let me know. Please continue to send reprints of your papers for assurance of inclusion in the newsletter. Publications marked by an asterisk are those that have been examined.

ANNUAL REPORT FOR THE YEAR 1977

REPORT, MINISTRY OF AGRIC AND NATURAL RESOURCES AND ENVIRONMENT 1979. 237 PP
(FIRST RECORD OF VINSONIA STELLIFERA AS A PEST IN MAURITIUS)

ANNUAL REPORT 1978

ANNUAL REPORT 1975-76, COCOA RES INSTITUTE, GHANA TAFO, GHANA 250 PP.
(FERRISIA VIRGATA, PLANOCOCCOIDES NAJALENSIS, PLANOCOCCUS CITRI)

ANNUAL REPORT 1978

CASSAVA. 1978 ANNUAL REPORT: IBADAN, NIGERIA 130 PP

ANNUAL REPORT 1980
REPORT 1979, MAURITIUS SUGAR INDUSTRY RESEARCH INSTITUTE. 86 PP

ANNUAL REPORT 1978
REPORT FOR 1975-1976, COCOA RESEARCH INSTITUTE, GHANA 250 PP

ANNUAL REPORT OF THE SECRETARY 1980
PINEAPPLES. SOUTH AFRICAN DEPT. OF AGRIC TECH SERV (1980). 144 PP

AGRICHEM AGE 1981
FOR SAN JOSE SCALE ASPIDIOTUS PERNICOSUS NEW PHEROMONE TRAP DEVELOPED IN CALIFORNIA. AGRICHEM AGE 25(5): 6, 35

MEET INT CONGRESS ENTOMOL (JAPAN) 1980
16TH MEETING OF THE INTERNATIONAL CONGRESS OF ENTOMOLOGY ADVANCES IN THE SYSTEMATICS OF THE COCCOIDEA KYOTO, JAPAN. ISR J ENTOMOL 14(0): 69-104

LIST OF PESTS 1980
PLANT DISEASES AND WEEDS FOR THE CONTROL OF WHICH QUARANTINE MEASURES EXIST. ZASH. RASTENII NO. 11. RU

QUARTERLY REPORT 1980
NEW PEST INTRODUCTIONS OR DISCOVERY. FAO CARIBBEAN PL PROT COMM 9, 3, 4

REPORT 1979
DEPARTMENT OF AGRICULTURAL RESEARCH AND EDUCATION, INDIA. 1978-1979: 300 PP (KERRIA LACCA, COCCOIDS)

REPORT, FORESTRY COMMISSION, UNITED KINGDOM 1979
REPORT ON FOREST RESEARCH FOR THE YEAR ENDED MARCH 1979. 84 PP

REPORT, FORESTRY COMMISSION, UNITED KINGDOM 1980
REPORT ON FOREST RESEARCH FOR THE YEAR ENDED MARCH 1980. 88 PP

REPORT, ORGANISATION INTERNATIONALE DE LUTTE BIOLOGIQUE 1980
REPORT OF THE NINTH COUNCIL MEETING, ACTIVITY REPORT 1979. BULLETIN SROP 3(5): 1-130 EN FR

SEMINAR ON BIOLOGICAL CONTROL OF SCALE-INSECTS AND ALEURODIDS ON CITRUS 1980(1977)
BOLETIN SERVICIO DEFENSE CONTRA PLAGAS INSPECCION FITOPATOLOGICA: 3(1/2): 1-233 ES EN

SYMPOSIUM ON BEECH BARK DISEASE, 1980
ANNALES DES SCIENCES FORESTIERES 37(4). FR EN DE

ABRAMOVIC, T. 1980
STUDY OF SCALE BUGS ON APPLE AND PEACH TREES IN THE BELGRADE AREA OF YUGOSLAVIA. ARH POLJOPR NAUKE 41(143): 523-529 SCR ENG

AFIFI, S. A.; AMIN, A. H.; NADA, S. M. A. 1980(1976)
TAXONOMY OF MALES OF TWO SPECIES OF PSEUDOCOCCIDAE. BULL SOC ENTOMOL EGYPT 1976. (60): 141-151 (PLANOCOCCUS FICUS AND TRIONYMUS LOUNSBURYI)

- ALAM, S.; ALAM, M. S.; KARIM, A. N. M. R. 1979
RICE MEALYBUG, *HETEROCOCCUS REHI*, OUTBREAK IN BANGLADESH. INTERNATIONAL RICE
RES NEWSLETTER 4(5): 20-21
- ALAYO, R.; BLAHUTIAK, A. 1980
SEASONAL DYNAMICS OF *SAISSETIA HEMISPHERICA* TARGIONI IN CUBA. POEYANA 210.
16 PP ES EN
- ALEXANDRAKIS, V. 1980
BIO-ECOLOGICAL DATA ON *POLLINIA POLLINI* ON OLIVE IN CRETE. ANNALES SOCIETE
ENTOMOLOGIQUE FRANCE 16(1): 9-17 FR EN
- ALEXANDRAKIS, V. 1980
ESTIMATION OF THE DAMAGE CAUSED TO ORANGE TREES IN CRETE BY *AONIDIELLA*
AURANTII. FRUITS 35(9):555-560 FR EN DE ES RU
- ALEXANDRAKIS, V. 1981
AN ATTEMPT FOR DISCRIMINATION OF THE DAMAGES ON ORANGE TREES DUE TO *AONIDIELLA*
AURANTII IN CRETE. FRUITS 35(9): 555-560
- ALEXANDRAKIS, V.; BENASSY, C. 1979
ATTEMPT TO EVALUATE THE DAMAGE CAUSED ON OLIVE TREES IN CRETE BY THE PRESENCE
OF *ASPIDIOTUS NERII* BOUCHE. REVUE ZOOLOGIE AGRICOLE PATHOLOGIE VEGETALE
78(2): 49-56 FR EN
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BACH. ACTA OECOLOGIA 2(1): 13-25 FR EN
- ALEXANDRAKIS, V.; BENASSY, C. 1981(1979)
HARMFUL EFFECTS OF VERY HIGH DENSITIES OF *ASPIDIOTUS NERII* ON OLIVE TREES IN
CRETE GREECE. REV ZOOL AGRIC PATHOL VEG 78(2): 49-56
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AND THE CITRUS VARIETY, IN CRETE. FRUITS 35(10): 639-644
- ALEXANDRAKIS, V.; NEUENSCHWANDER, P. 1980
THE ROLE OF *APHYTIS CHILENSIS*, THE MAIN PARASITE OF *ASPIDIOTUS NERII* ON OLIVE
TREES IN CRETE. ENTOMOPHAGA 25(1): 61-71
- ALINIAZEE, M. T. 1980
FILBERT INSECT AND MITE PESTS. BULL AGRIC EXP STA, OREGON STATE U. 643, 12 PP
- ALSTAD, D. N.; EDMUNDS, G. F., JR.; JOHNSON, S. C. 1980
HOST ADAPTATION SEX RATIO AND FLIGHT ACTIVITY IN MALE BLACK PINE-LEAF SCALE
NUCULASPIS CALIFORNICA. ANN ENTOMOL SOC AM 73(6): 665-667
- AMIN, A. H.; AFIFI, S. A.; NADA, S. M. A. 1980(1976)
TAXONOMY OF FOUR ADULT MALES OF FAMILY *LECANODIASPIDIDAE* *LECANODIASPIS*. BULL
SOC ENTOMOL EGYPT 1976 (60): 153-169.
- AMMAR, E. D.; AWADALLAH, K. T.; RASHAD, A. 1979
ECOLOGICAL STUDIES ON THE WHITE MEALY BUG *FERISIA VIRGATA* CKLL. ON *ACALYPHA*
SHRUBS IN DOKKI, GIZA DTSCH ENTOMOL Z. 26(4/5): 207-213

- ANDRES, F. DE 1979
INTEGRATED CONTROL IN THE OLIVE GROVE. AGRICULTURA 48(569): 711-717
- ANJANEYULU, A.; SINGH, S. K.; SKUKLA, V. D.; SHENOI, M. M. 1980
CHLOROTIC STREAK, A NEW VIRUS DISEASE OF RICE. INTERNATIONAL RICE RESEARCH NEWSLETTER 5(3): 12-13 (HETEROCOCCUS REHI)
- ANNECKE, D. P.; MYNHARDT, M. J. 1981
THE SPECIES OF THE METAPHYCUS ASTEROLECANII GROUP FROM SOUTH AFRICA WITH NOTES ON SOME EXTRALIMITAL SPECIES. J ENTOMOL SOC SOUTH AFR 44(1): 1-68
- ARCHIBALD, R. D.; COX, J. M.; DEITZ, L. L. 1979*
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THE PHENOLOGY AND NATURAL ENEMIES OF THE SCALE ASPITOTUS NERII BOUCHE IN CENTRAL GREECE PARASITISM ON VARIETIES OF TABLE OLIVES. FRUITS 35(10): 633-638. EN FR GE RU ES
- ARGYRIOU, L. C.; SANTORINI, A. P. 1980
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- AVASTHI, R. K.; SHAFFEE, S. A. 1979.
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MEALYBUGS ON HOUSE PLANTS AND IN THE HOME LANDSCAPE. LEAFL UNIV CALIF COOP
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- BARNES, M. M.; CURTIS, R. K. 1979
PRESENT DEVELOPMENT OF ARTHROPOD PEST MANAGEMENT IN ALMOND ORCHARDS OF
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PLENUM PRESS, NEW YORK 256 PP
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MEALYBUG DROSICHA MANGIFERAE. PUNJAB HORTIC J. 20(1/2): 80-83
- BAYLAC, M. 1980
FAUNA ASSOCIATED WITH CRYPTOCCUS FAGI IN SOME BEECH FORESTS IN NORTHERN
FRANCE. ACTA OECOLOGICA 1(2): 199-208 FR EN
- BAZAROV, B. B. 1979
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REPERCUSSION OF PHYTOSANITARY TREATMENT ON THE ENTOMOPHAGOUS FAUNA ATTACKING
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- BENASSY, C. 1980(1977)
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ON THE ABDOMINAL SEGMENTATION IN THE ADULT FEMALE OF ARMURED SCALE INSECTS OF
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